

REGION V
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2-1-82

KSH

DICKMAN RD & HOOVER BALL & BEARING
TOM LENTZEN
F5-8103-11

DATE:

1/29/82

SUBJECT: Review of Region V Contractor Data; Received for Review on

1/11/82

FROM: Curtis Ross, Director
Central Regional Laboratory

Chuck Ely for

TO: Data User: FDT

We have reviewed the data for the following Case(s):

Site Name: Dickman Rd. VIAR Case No.: 751

EPA Data Set No.: EECB 470 Decision Unit Y 306

CRL Laboratory Numbers: 81 MB08518 - 81 MB08523

VIAR Traffic Numbers: E2039 to E2-050

Person-hours required for review: 7 hrs

Following are our findings:

See attached comments of 1/25/82.

The reagent blanks were contaminated with different compounds.

If the same compounds were found in the samples at similar levels, data for those compounds should not be used.

81MB08518-521 = Dickman Road

81MB08522-523 = HOOVER BALL & BEARING

- ☐ Data are acceptable for use.
☐ Data are unacceptable for use.
☒ Data are preliminary - this case has been forwarded to Dr. Alfred Haeberer, EPA Support Services, for review - pending reply.

cc: Dr. Alfred Haeberer

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2-1-82
KJY

DATE: 1/25/82

SUBJECT: Review of Region V Contractor Data; Received for Review on 1/11/82

FROM: Curtis Ross, Director *CRS for*
Central Regional Laboratory

TO: Data User: FIT

We have reviewed the data for the following case(s):

Site Name: DICKMAN ROAD
VIAR Case No. # 751
EPA Data Set No. EE1B 470
CRL Laboratory Numbers: 81MB08518 — 81MB08523
VIAR Traffic Numbers: E2039 — E2-050
Man-hours required for Review: 8 hrs

Following are our findings:

(1) The tentatively compounds indicated in the following samples show a poor spectral fit and should be definitely viewed as tentative:

- | | |
|--------------|---------|
| (a) E2039 | #2 |
| (b) E2040-02 | #4 |
| (c) E2049 | #4, #5 |
| (d) E2041-02 | #9, #17 |
| (e) E203-01 | #4, #5 |

(2) "Suspected Contaminants" in the Volatile fraction ^{acid} and in the EPA reagent blanks (See attachments ^{1/18/82} #1, and #2) ^{be suspect} caused by affected data.

(3) The units were incorrectly reported. I converted the data to mg/Kg using the ~~total~~ volume measured by Mead. (This assumes that the samples concentrated prior to receipt by Mead Chem).

(4) The acid Spike Recovery is low, however sample E2041-02 (tent #1) and E2041-01 (Tent #6) contain compounds which were a part of the acid spike and should be excluded from the Tentative list.

☒ Data are acceptable for use.

☐ Data are unacceptable for use.

☒ Data are preliminary - this case has been forwarded to Dr. Alfred Haebeler, EPA Support Services, for review - pending reply.

cc: Dr. Alfred Haebeler

g. Flynn
1/25/82
CRL

2-1-82
KJH

①

Per telephone conversation between R. L. Myers and F. Haberer on December 3, 1981, the following conditions apply to this data.

The volatiles fraction of this sample was contaminated with high levels of methylene chloride during storage and shipment, and prior to receipt by Mead CompuChem. These high levels cause instrument saturation which would normally necessitate a blank being run immediately following the sample. Under these circumstances (contamination), these blanks are unnecessary, time-consuming and wasteful. It was therefore concluded that for these samples (SAS 56-Z), a blank would not be run if methylene chloride was the only compound saturated.

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KJY

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QUALITY CONTROL NOTICE

Volatile and Base/Neutral fractions of samples received for EPA Case #751 showed several compounds which were also found in EPA "Reagent Blanks". Methylene chloride, 2-Propanone, and 2-Butanone were commonly found in VOA fractions, and a variety of phthalates and other compounds were found in Base/Neutral fractions.

JAN 6 1982

The concentration blanks processed by CompuChem with these samples did not contain these compounds. These compounds were apparently added either during the extraction process prior to receipt at CompuChem, or during shipping. The attached page "EPA REAGENT BLANKS & COMPOUNDS IDENTIFIED" describes the extent of the blank contamination. Since the CompuChem blanks for this Case and for other work in-house at the time these samples were processed showed no contamination, it is suggested that the EPA examine the sample containers and glassware and procedures for processing hazardous waste samples prior to sending the extracts to other laboratories for analysis.

Because of this evidence of contamination, it is also suggested that those samples exhibiting the compounds found in the "Reagent Blanks" be labelled "Suspected Contaminants" of real-world hazardous waste samples. The data should be qualified if used in legal actions.

Paul North

Director, Quality Assurance

EPA REAGENT BLANKS & COMPOUNDS IDENTIFIED


CompuChem #	EPA #	Compounds Found
10294	EZ-067	Methylene Chloride,VOA fraction. P-chloro-m-cresol; 2-chlorophenol; 2,4-dichlorophenol; 2,4-dimethylphenol; phenol, Acid fraction. Acenaphthene; Di-n-Butyl Phthalate, Base/Neutrals.
10303	EZ-027-01	Methylene Chloride; 2-Butanone; 2-Butanone,methyl; 2-Propanone, VOA fraction. Phenol,2,6-Bis(1,1-Dimethyl)-4-Methyl, Base/Neutral fraction
10330	EZ-038	Methylene Chloride, VOA fraction.
10336	EZ-074	Methylene Chloride; 2-Butanone, VOA fraction. Bis(2-ethylhexyl)phthalate, Base/Neutrals.
10346	EZ-068	Methylene Chloride; 3-Cyclohexene-1-methanol, Alpha,Alpha,4-Trimethyl-Acetate; 2,4,6-Octatriene,2,6-Dimethyl; 2,-Butanone; 2-Butanone,3-methyl; Hexane,4-ethyl-2-methyl in VOA fraction.
10349	EZ-013	Methylene Chloride; Methane,Trimethoxy, in VOA fraction. 1,2-Benzenedicarboxylic acid, 2-Butoxyethylbutylester; Bis(2-ethylhexyl)phthalate, Base/Neutral fraction.
10353	EZ-049	Methylene Chloride in VOA fraction. Bicyclo (3.1.0) Hexen-2-one,1,5-; Phenol,2,6-Bis(1,1-Dimethyleth)-; Undecane, 3,3-Dimethyl; 2(3H)-Oxazolethione,4,5-Diphen in Base/Neutral fraction.
10356	EZ-017	9-Octadecanamide,(2)- in Base/Neutral fraction.
10358	EZ-018	1,2-Benzenedicarboxylic acid, 2-Butoxyethylbutyl ester in Base/Neutral fraction.
10365	EZ-012-02	4-Hexen-1-ol, 5-methyl-2-(1-Methylethene)- in Base/Neutral fraction.
10373	EZ-027-02	No compounds detected.
10375	EZ-050	Methylene Chloride in VOA fraction.
10532	EZ-098-01	Methylene Chloride; Formic acid, methyl ester; 2-Propanone; Acetic acid, methyl ester; 2-Propen-1-ol, 2-methyl, acetate in VOA fraction. 9-Octadecanamide(2)- in Base/Neutral.
10554	EZ-098-02	Nonane,2-5-Dimethyl; Phenol,2,6-Bis(1,1-Dimethylethyl)-4-Methyl; Pentane,3,3-Dimethyl; 2,Oxazolidinone,3-Methyl-4,5-Diphenyl-cis; Benzene,1,1'-(1,2-Ethenediyl)-Bis; 1,3-Propane Diane,-2-Diazo-1,3-Diphenyl;Silane,(Lanost-8-en-3,Beta-yloxy)Trimethyl; 1H-Indole,2-phenyl, 1H-1,2,3-Triazole,1,4-Diphenyl; Benzene,1,1-(1,2-Ethanediy)Bis-4-methyl in Base/Neutral.
10564	EZ-092-02	1,3-Isobenzofurandione; 6,10,14-Hexadecatrien-1-ol-3,7; Decanoic acid, 2-Hydroxy-1- in Base/Neutral fraction.
10566	EZ-093	Methylene Chloride; Acetic acid, methyl ester; 2-Butanone; 2-Butanone,3-Methyl; Ethanol in VOA fraction.

QUALITY CONTROL NOTICE

The following samples were received as extracts to be concentrated and analyzed; a concentration blank was to have been similarly concentrated for analysis, but was not done with these particular samples. However, blanks run for similar samples at the same time by a different analyst at the other side of the laboratory bench showed no contamination above the detection limits for GC/MS, and therefore no adjustments to the data were made. The decision was made not to reconstitute these extracts to the original, as-received volume and repeat the concentration step; this might have allowed more chances for error and possible contamination during reprocessing.

CompuChem #	EPA #	Date Concentrated	Other Concentration Blank That Day
10309	EZ-007	11/30/81	B-0623 and B-0629 and B-0654
10310	EZ-009-01	"	"
10311	EZ-011	"	"
10312	EZ-012-01	"	"
10313	EZ-040-01	"	"
10314	EZ-041-01	"	"
10315	EZ-042-01	"	"
10317	EZ-046	"	"
10328	EZ-036	"	"
10329	EZ-037	"	"
10355	EZ-015	"	"
10437	EZ-051	"	"
10530	EZ-096-01	12/04/81	B-0637, B-0638, B-0639
10531	EZ-097-01	"	"
10540	EZ-083-01	"	"
10541	EZ-084	"	"
10542	EZ-085	"	"
10543	EZ-086-01	"	"
10545	EZ-088-01	"	"
10546	EZ-089	"	"
10547	EZ-090	"	"
10549	EZ-091	"	"
10618	EZ-106	"	"
10356	EZ-017	11/30/81	B-0623, B-0629, B-0654
10330	EZ-038	"	"
10532	EZ-098-01	"	"
10316	EZ-045	"	"

CompuChem #	EPA #	Date Concentrated	Other Concentration Blanks That Day
10528	EZ-094-01	12/04/81	B-0637,B-0638,B-0639
10529	EZ-095-01	"	"
10533	EZ-076-01	"	"
10536	EZ-079-01	"	"
10537	EZ-080	"	"
10538	EZ-081	"	"
10539	EZ-082-01	"	"
10544	EZ-087-01	"	"



Director, Quality Assurance